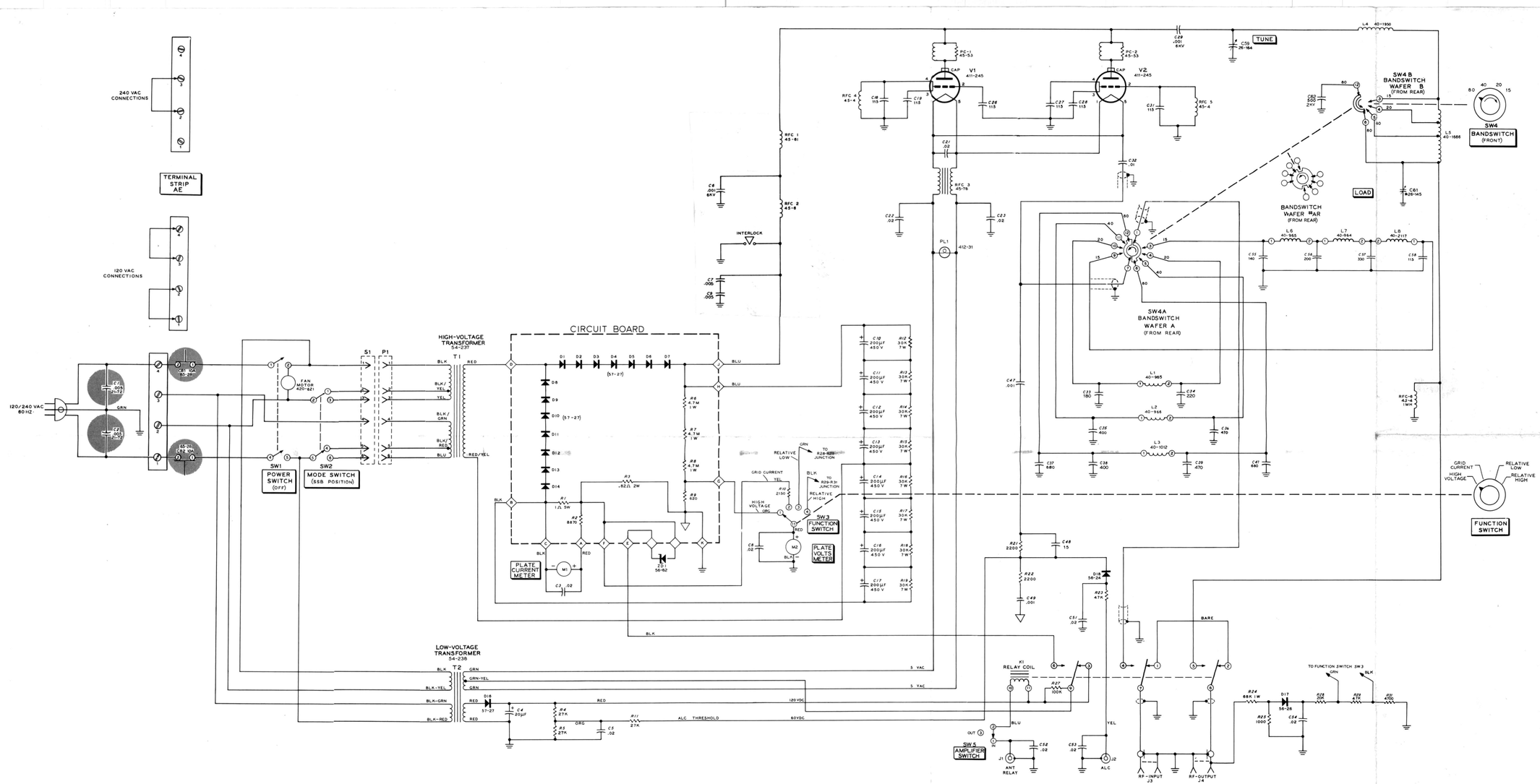


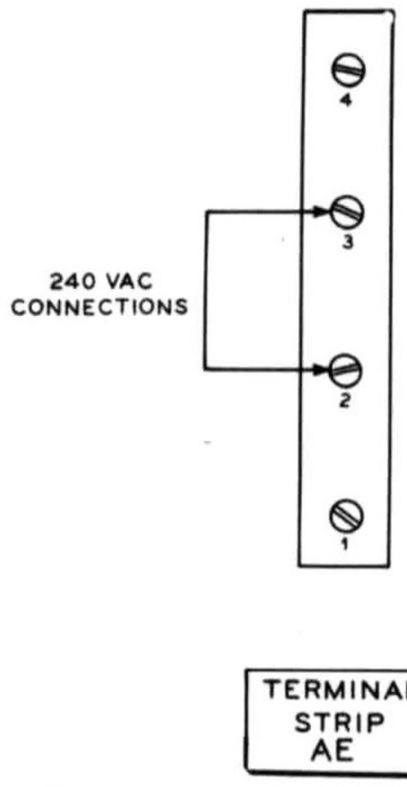
SCHEMATIC OF THE HEATHKIT®
2KW LINEAR AMPLIFIER
MODEL HL-2200

NOTES:

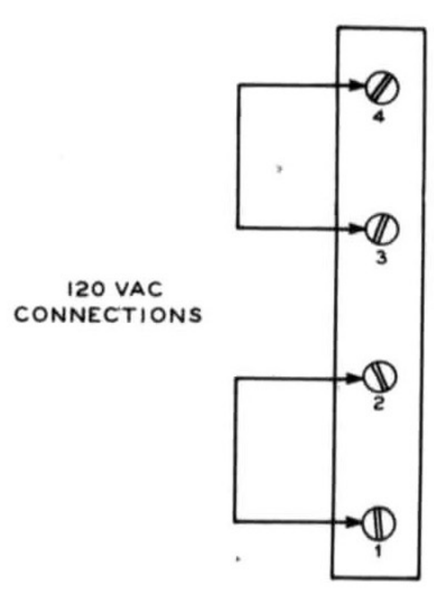
1. ALL RESISTORS ARE 1/2 WATT UNLESS OTHERWISE INDICATED. VALUES ARE IN OHMS (K=1000, M=1,000,000).
2. CAPACITOR VALUES LESS THAN 1 ARE IN µF. VALUES OF 1 AND ABOVE ARE IN pF UNLESS MARKED OTHERWISE.
3. THE BANDSWITCH IS IN THE 80 METER POSITION. ARROWS INDICATE THE DIRECTION OF ROTATION FOR THE VIEW SHOWN.
4. ▽ THIS SYMBOL INDICATES A CONNECTION TO CIRCUIT BOARD GROUND FOIL.
 Ⓐ THIS SYMBOL INDICATES A CONNECTION TO THE CIRCUIT BOARD.
5. PARTS IN SHADED AREAS ARE CRITICAL FOR CONTINUED SAFETY. REPLACE THEM ONLY WITH PARTS OF THE SAME RATING OR WITH THE PROPER HEATH PARTS.

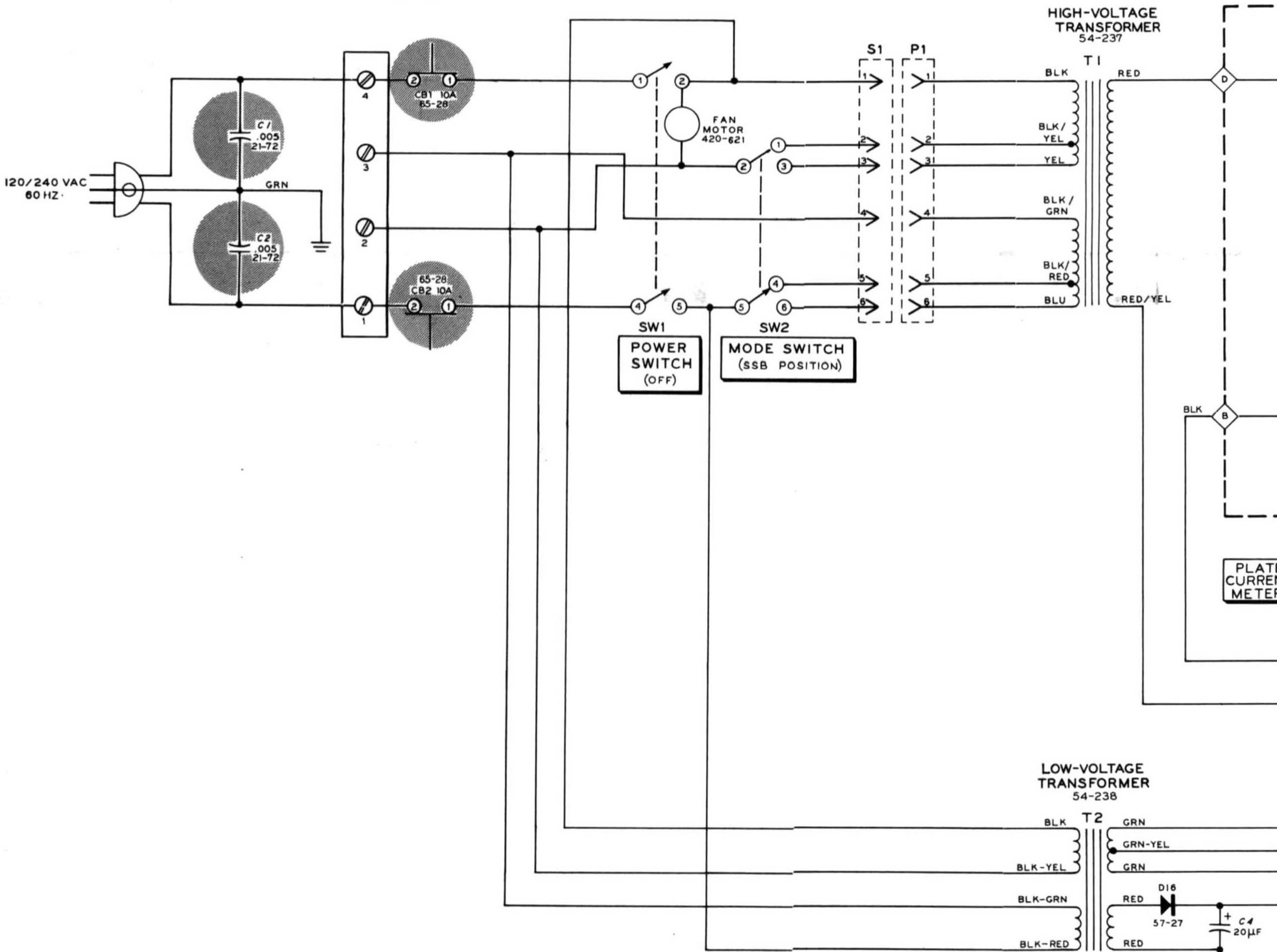
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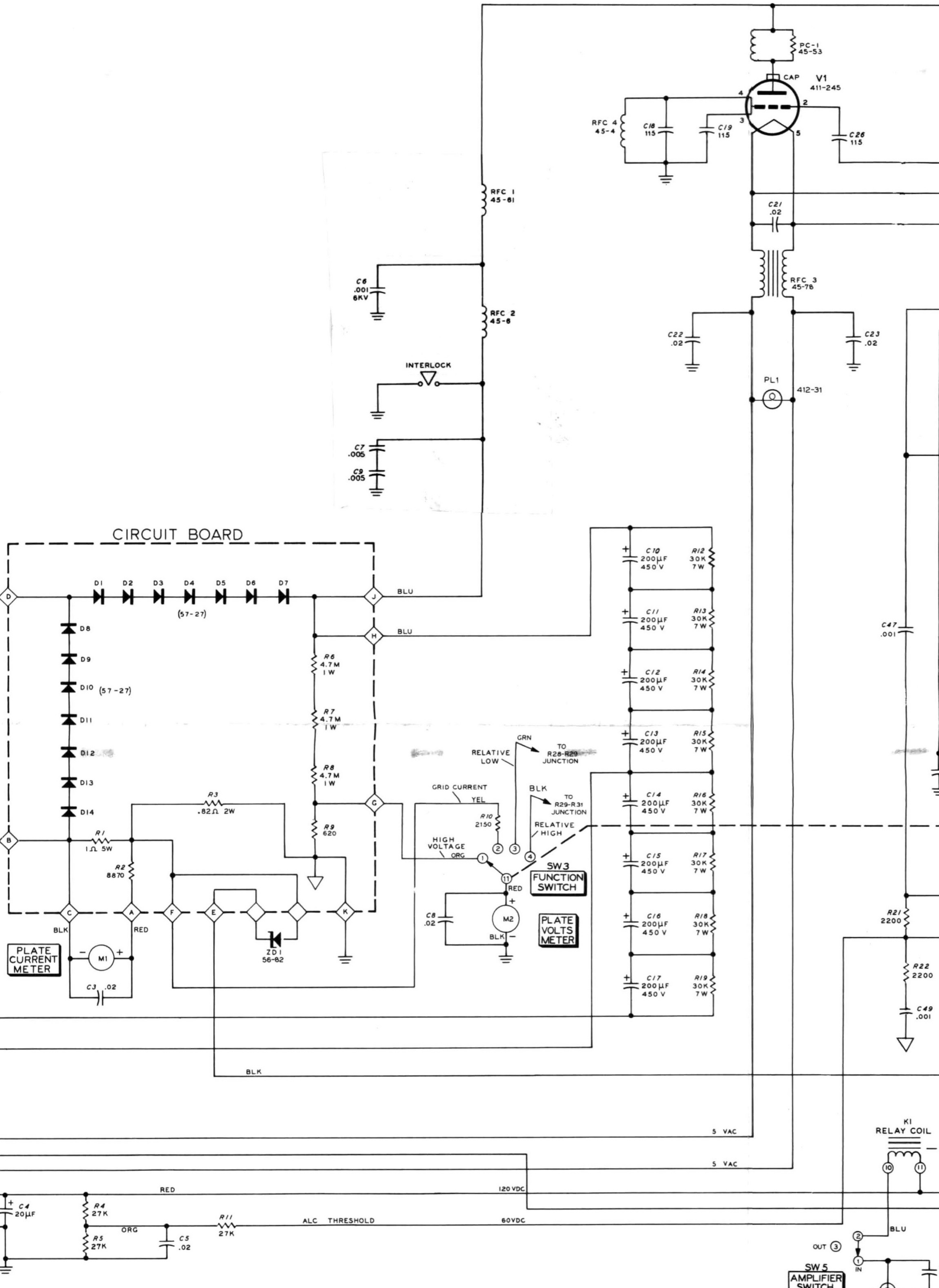
Part of 595-2986-01



TERMINAL STRIP AE






PC-1
45-53
CAP
V1
411-245
RFC 4
45-4
C18
115
C19
115
C26
115
RFC 1
45-61
C21
.02
RFC 3
45-78
C6
.001
6KV
RFC 2
45-6
C22
.02
C23
.02
PL1
412-31
INTERLOCK
C7
.005
C9
.005
CIRCUIT BOARD
D1
D2
D3
D4
D5
D6
D7
(57-27)
D8
D9
D10
(57-27)
D11
D12
D13
D14
J
BLU
H
BLU
R6
4.7M
1W
R7
4.7M
1W
R8
4.7M
1W
R9
620
R3
.82Ω 2W
R1
1Ω 5W
R2
8870
G
B
C
A
F
E
K
BLK
RED
ZD1
56-82
PLATE
CURRENT
METER
M1
C3 .02
GRN
RELATIVE
LOW
TO
R28-R29
JUNCTION
GRID CURRENT
YEL
BLK
TO
R29-R31
JUNCTION
R10
2150
RELATIVE
HIGH
HIGH
VOLTAGE
ORG
SW3
FUNCTION
SWITCH
RED
C8
.02
M2
BLK
PLATE
VOLTS
METER
C10
200µF
450 V
R12
30K
7W
C11
200µF
450 V
R13
30K
7W
C12
200µF
450 V
R14
30K
7W
C13
200µF
450 V
R15
30K
7W
C14
200µF
450 V
R16
30K
7W
C15
200µF
450 V
R17
30K
7W
C16
200µF
450 V
R18
30K
7W
C17
200µF
450 V
R19
30K
7W
C47
.001
R21
2200
R22
2200
C49
.001
BLK
5 VAC
5 VAC
RED
120 VDC
C4
20µF
R4
27K
R5
27K
ORG
C5
.02
R11
27K
ALC THRESHOLD
60VDC
K1
RELAY COIL
BLU
OUT
IN
SW 5
AMPLIFIER
SWITCH
J1
ANT
RELAY

C29 .001 6KV

C59 26-164

TUNE

L4 40-1950

PC-2 45-53

CAP

V2 411-245

C27 115

C28 115

C31 115

RFC 5 45-4

C32 .01

C62 500 2KV

SW4 B BANDSWITCH WAFER B (FROM REAR)

SW4 BANDSWITCH (FRONT)

L5 40-1666

C61 #26-145

LOAD

BANDSWITCH WAFER #AR (FROM REAR)

L6 40-965

L7 40-964

L8 40-2117

C55 140

C56 200

C57 330

C58 115

SW4A BANDSWITCH WAFER A (FROM REAR)

L1 40-965

C33 180

C34 220

L2 40-966

C35 400

C36 470

L3 40-1012

C37 680

C38 400

C39 470

C41 680

RFC-6 45-4 1MH

GRID CURRENT

HIGH VOLTAGE

RELATIVE LOW

RELATIVE HIGH

FUNCTION SWITCH

C48 15

R22 2200

C49 .001

D18 56-24

R23 47K

C51 .02

BARE

K1 AY COIL

R27 100K

BLU

YEL

C52 .02

C53 .02

J2

ALC

RF-INPUT J3

RF-OUTPUT J4

TO FUNCTION SWITCH SW3

GRN

BLK

R24 68K 1W

D17 56-26

R25 1000

C54 .02

R28 20K

R29 4.7K

R31 4700